



Product Data Sheet

Recombinant Animal-Free Mouse FGF-basic / FGF-2

Catalog Number: 200-12AF

Product Description

Alternate Names: FGF2, HBGF-2, Prostatropin

Accession Number: P15655

Description: Basic fibroblast growth factor (FGF-basic), also known as FGF-2, is expressed by endothelial cells and is a mediator of angiogenesis. FGF-basic also has cardioprotective functions during heart injury. The application of FGF-basic is a critical component for human embryonic stem cell culture systems and is necessary for maintaining human embryonic stem cells in an undifferentiated state.

Source: Genetically modified *E.coli*. **This product is produced with no animal or human origin raw products. All processing and handling employs animal free equipment and animal free protocols.**

Predicted MW: Monomer, 16.5 kDa (with 146 amino acids)

AA Sequence: MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIGKVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5

Product Specifications*

*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

Specification	Method of Determination	Acceptance Criteria
Purity	Reducing and Non-Reducing SDS-PAGE	≥ 95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/μg
Biological Activity	3T3 cell proliferation	ED50 ≤ 2.5 ng/mL (≥ 4.0 x 10 ⁵ units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature

Storage Prior to Reconstitution: -20°C

Product Reconstitution: Sterile water at 0.1 mg/mL

Instructions: Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialled to compensate for this loss.

Expiration Date:

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!